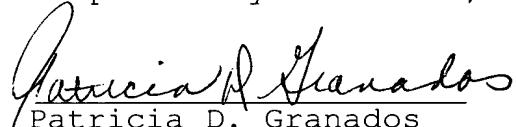


REMARKS

Entry is respectfully requested of this Preliminary Amendment, the purpose of which is to place the claims in better form for examination in the U.S. Patent and Trademark Office. The above further amends the claims as amended on November 15, 2000, in PCT/EP99/08678.

Respectfully submitted,

  
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Patricia D. Granados  
Reg. No. 33,683

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Date

**Customer ID No. 26633**

HELLER EHRMAN WHITE & McAULIFFE  
1666 K Street, NW, Suite 300  
Washington, DC 20006  
(202) 912-2000 (telephone)  
(202) 912-2020 (telecopier)  
PDG:rk



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**Amendments to claims with brackets and underlining**

Please **amend claims 1-18** as follows:

**1.** (Amended) [Process] A process for producing antibodies which react specifically with a polypeptide, wherein the nucleic acid encoding [which] the polypeptide is known, wherein:

- (a) the DNA encoding the polypeptide is expressed in a host cell which is derived from a mammal using a vector which possesses at least one sequence encoding a detection signal, and the expressed polypeptide is bound to a solid phase with the aid of the detection signal,
- (b) independently of step (a), the DNA encoding the polypeptide is introduced directly into an animal, resulting in expression of a polypeptide in the animal, which expression causes the formation of antibodies against the polypeptide and the expression vector employed for the genetic immunization in step (b), for the purpose of preparing the desired antibodies, is also used [in vitro] in vitro for producing the target protein, and
- (c) the antibodies which are formed in step (b) are reacted with the polypeptide formed in step (a) and detected or enriched.

**2.** (Amended) [Process] The process according to claim 1, [characterized in that] wherein the vector used in step (a) possesses, at the C-terminus of the DNA encoding the polypeptide, a sequence which encodes the detection signal.

**3.** (Amended) [Process] The process according to claim 2, [characterized in that] wherein the detection sequence is selected from the group consisting of His<sub>6</sub>, tag sequence, the hemagglutinin sequence of an influenza virus [or] and the myc tag sequence.

**4.** (Amended) [Process] The process according to [one of the preceding claims, characterized in that] claim 1, wherein the vector encoding the polypeptide possesses a polyadenylation sequence at the C-terminal end of the detection sequence.

**5.** (Amended) [Process] The process according to [one of the preceding claims, characterized in that] claim 1, wherein the vector encoding the polypeptide possesses a strong promoter at the 5' end of the DNA sequence encoding the polypeptide.

**6.** (Amended) [Process] The process according to claim 5, [characterized in that] wherein the strong promoter is selected from the group consisting of strong eucaryotic promoters, in particular the elongation factor 1 $\alpha$  promoter or the cytomegalovirus promoter.

**7.** (Amended) [Process] The process according to [one of the preceding claims, characterized in that] claim 1, wherein the polypeptide-encoding DNA[,] which is introduced directly into an animal in accordance with step (b) [,] is present in a vector.

8. (Amended) [Process] The process according to [one of the preceding claims, characterized in that] claim 1, wherein the polypeptide-encoding DNA is introduced into the animal in step (b) using a gene gun.

9. (Amended) [Process] The process according to [one of the preceding claims, characterized in that] claim 1, wherein the animal employed in step (b) is a mouse, a rat or a rabbit.

10. (Amended) [Process] The process according to [one of the preceding claims, characterized in that] claim 1, wherein in step (b), a genetic adjuvant is administered in addition to the polypeptide-encoding DNA.

11. (Amended) The process according to claim 10, [characterized in that] wherein the genetic adjuvant is [selected from a group comprising] a cytokine expression [vectors] vector which [increase] increases antibody production.

12. (Amended) [Process] The process according to [one of the preceding claims, characterized in that] claim 1, wherein suitable cells from an animal which has been immunized in accordance with step (b) are used for preparing hybridoma cells for forming monoclonal antibodies.

13. (Amended) [Process] The process according to [one of the preceding claims, characterized in that] claim 1, wherein the polypeptide formed in step (a) is bound to a solid phase by means of the detection signal being bound to an antibody or an antibody fragment which is directed against it.

14. (Amended) [Process] The process according to claim 13, [characterized in that] wherein the solid phase is selected from the group consisting of microtiter plates, gel spheres [or] and magnetic beads.

15. (Amended) The process according to [one of the preceding claims, characterized in that] claim 1, wherein the antibody formed in step (b) is detected, after having been bound to the polypeptide formed in step (a), using an anti-antibody which is detected against the antibody.

16. (Amended) The process according to [one of the preceding claims, characterized in that] claim 1, wherein the antibody which is [bound] reacted with the expressed polypeptide in step (c) is released by elution.

17. (Amended) The process according to [one of the preceding claims, characterized in that] claim 1, wherein the detection signal is a sequence which is responsible for membrane anchoring using a GPI residue.

18. (Amended) [Antibody, characterized in that it can be obtained using one of the processes according to claims 1-17] An antibody produced by a process comprising:

(a) expression of DNA encoding a polypeptide in a host cell which is derived from a mammal using a vector which possesses at least one sequence encoding a detection signal, and the expressed polypeptide is bound to a solid phase with the aid of the detection signal,

(b) independently of step (a), the DNA encoding the polypeptide is introduced directly into an animal, resulting in expression of a polypeptide in the animal, which expression causes the formation of antibodies against the polypeptide and the expression vector employed for the genetic immunization in step (b), for the purpose of preparing the desired antibodies, is also used *in vitro* for producing the target protein, and

(c) the antibodies which are formed in step (b) are reacted with the polypeptide formed in step (a) and detected or enriched.

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